WHAT IS CLAIMED IS:

1. A data transfer method in an image formation system which is equipped with an image generation controller unit for generating bitmap image data of an image, an image formation unit for forming an image on a recording medium, an image processing controller unit for controlling the image formation unit and also transferring image data at a timing requested by the image formation unit, and respective data signal lines for yellow, magenta, cyan and black to be used to transfer the image data between the image generation controller unit and the image processing controller unit, wherein

in a case where the number of image bearing bodies of the image formation unit is one, when a color image signal is transferred from the image generation controller unit to the image processing controller unit, the image signals of one color component for the four lines are simultaneously transferred by using the yellow, magenta, cyan and black signal lines repeatedly until the transfer of the image signals for one page ends, and then the image signals of the next color component are transferred, and

when a black-and-white image signal is transferred from the image generation controller unit to the image processing controller unit, the image

signals of black color component for the four lines are simultaneously transferred by using the yellow, magenta, cyan and black signal lines repeatedly until the transfer of the image signals for one page ends.

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2. A data transfer method according to Claim 1, wherein in a case where the number of the image bearing bodies of the image formation unit is four,

when the color image signal is transferred from

10 the image generation controller unit to the image processing controller unit, the image signals of the respective color components for the corresponding one line are simultaneously transferred respectively by using the yellow, magenta, cyan and black signal

15 lines repeatedly until the transfer of the image signals for one page ends, and

when the black-and-white image signal is transferred from the image generation controller unit to the image processing controller unit, the image

20 signals of black color component for the four lines are simultaneously transferred by using the yellow, magenta, cyan and black signal lines repeatedly until the transfer of the image signals for one page ends.

25 3. An image formation system which is equipped with an image generation controller unit for generating bitmap image data of an image, an image

formation unit including plural image bearing bodies

of respective color components and for performing

image formation by transferring on a recording medium

images of the respective color components formed on

5   the respective image bearing bodies, and an image

processing controller unit for controlling said image

formation unit and also transferring image data at a

timing requested by said image formation unit,

wherein

10   plural video data signal lines of the

respective color components are provided between said

image generation controller unit and said image

processing controller unit, and

         when the image data of only a single color is

15   transferred from said image generation controller

unit to said image processing controller unit, the

image data for the plural lines are simultaneously

transferred by simultaneously using said plural video

data signal lines.

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        4. A data transfer method in an image formation

system which is equipped with an image generation

controller unit for generating bitmap image data of

an image, an image formation unit including plural

25   image bearing bodies of respective color components

and for performing image formation by transferring on

a recording medium images of the respective color

components formed on the respective image bearing
bodies, an image processing controller unit for
controlling the image formation unit and also
transferring image data at a timing requested by the
5   image formation unit, and plural video data signal
lines of the respective color components to be
provided between the image generation controller unit
and the image processing controller unit, wherein

      when the image data of only a single color is
10   transferred from the image generation controller unit
to the image processing controller unit, the image
data for the plural lines are simultaneously
transferred by simultaneously using the plural video
data signal lines.

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     5. A data transfer method in an image formation
system which is equipped with an image generation
controller unit for generating bitmap image data of
an image, an image formation unit for forming an
20   image on a recording medium, an image processing
controller unit for controlling the image formation
unit and also transferring image data at a timing
requested by the image formation unit, and respective
data signal lines for yellow, magenta, cyan and black
25   to be used to transfer the image data between the
image generation controller unit and the image
processing controller unit, wherein

in a case where the number of image bearing
bodies of the image formation unit is one, when a
color image signal is transferred from the image
generation controller unit to the image processing
5   controller unit, the image signals of one color
component for the four lines are simultaneously
transferred by using the yellow, magenta, cyan and
black signal lines repeatedly until the transfer of
the image signals for one page ends, and then the
10   image signals of the next color component are
transferred, whereby the image signals of the four
color components are transferred.